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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/647,953 5514	12/11/2000 7590 08/29/2003	Seiji Mishima	35 C14385	. 9	
. FITZPATRICK CELLA HARPER & SCINTO 30 ROCKEFELLER PLAZA NEW YORK, NY 10112		& SCINTO	TALBOT, BRIAN K		
	•	*	ART UNIT	PAPER NUMBER	
			1762	•	
		DATE MAILED: 08/29/2003			

Please find below and/or attached an Office communication concerning this application or proceeding.

			_		AS			
44	Ė	Application	No.	Applicant(s)				
		09/647,953	_	MISHIMA ET AL.				
Office Action Summary		Examiner		Art Unit				
		Brian K Talbo	ot	1762				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE M - Extens after S - If the p - If NO p - Failure - Any rej	RTENED STATUTORY PERIOD FOR REPL AILING DATE OF THIS COMMUNICATION. ions of time may be available under the provisions of 37 CFR 1. X (5) MONTHS from the mailing date of this communication. eriod for reply specified above is less than thirty (30) days, a re- eriod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statut sly received by the Office later than three months after the mailin patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, ply within the statutor I will apply and will ex te, cause the applicat	however, may a reply be tim y minimum of thirty (30) days wire SIX (6) MONTHS from it tion to become ABANDONED	ely filed will be considered timely the mailing date of this co (35 U.S.C. § 133).	γ. ommunication.			
1)⊠	Responsive to communication(s) filed on 24	June 2003.						
2a)⊠	This action is FINAL . 2b) T	his action is no	n-final.					
3)□	Since this application is in condition for allow	vance except fo	or formal matters, pr	osecution as to th	e merits is			
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims								
4) Claim(s) Claims 1,3-8,18-20,22-27,44,45,52,53,71-73 and 95-98 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5)□(Claim(s) is/are allowed.							
6) Claim(s) Claims 1,3-8,18-20,22-27,44,45,52,53,71-73 and 95-98 is/are rejected.								
7) 🗌 (Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Application	·							
9) The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
	Applicant may not request that any objection to the			` '				
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
	he oath or declaration is objected to by the E	xaminer.						
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
	All b) Some * c) None of:							
,	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(_	no priority und	ci 00 0.0.0. gg 120	and/01 121.				
1) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)		Notice of Informal P	(PTO-413) Paper No(atent Application (PT				
intorm لــا (د	ation Disclosure Statement(s) (PTO-1449) Paper No(s)	6)	☐ Other: .					

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- 1. The amendment filed 6/24/03 has been considered and entered. Claims 2,9-17,21,28-43,46-51,54-70 and 74-94 have been canceled. Claims 95-98 have been added. Claims 1,3-8,18-20,22-27,44,45,52,53,71-73 and 95-98 remain in the application.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. In light of the amendment filed 6/24/03, the 35 USC 112 rejections have been withdrawn.

Claim Rejections - 35 USC § 103

Claims 1,3-8,18-20,22-27,44,45,52,53,71-73 and 95-98 are rejected under 35 U.S.C.
 103(a) as being unpatentable over JP 10-58668, JP 11-25852, Banno et al. (6,060,113) or EP
 736,890 in combination with JP 10-5654 or JP 06-163,499.

JP 10-58668, JP 11-25852, Banno et al. (6,060,113) or EP 736,890

JP 10-58668, JP 11-25852, Banno et al. (6,060,113) or EP 736,890 all teach forming electron emitting device comprising a substrate, electrodes, an electroconductive thin film and an electron emitting region. A metal-containing liquid composition is applied between the electrodes by fine drop application means using a piezoelectric device or a bubble-jet system or an ink-jet system. Thereafter the applied composition is baked to produce the electroconductive film. The drops are applied between the electrodes by moving the substrate, nozzle or both. The timing of the droplet depositing and the angle of the substrate are controlled.

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JP 10-58668, JP 11-25852, Banno et al. (6,060,113) or EP 736,890 fail to teach measuring/controlling the distance(height) from the droplet nozzle to the surface to be coated.

JP 10-5654 teaches a coating machine for applying paste to a substrate with a nozzle where the angularity/height of the nozzle from the coating surface is measured and controlled. Nozzle is held at a controlled height regardless of the contour of the substrate.

JP 06-163,499 teaches controlling the distance from the nozzle to the substrate to maintain a constant distance between the nozzle and surface to be coated.

Therefore, it would have been within the skill of one practicing in the art to have modified JP 10-58668, JP 11-25852, Banno et al. (6,060,113) or EP 736,890 process by incorporating the measuring device as evidenced by either JP 10-5654 or JP 06-163,499 with the expectation of achieving a greater control of the subsequent deposited material.

Response to Amendment

Applicant argued that the references fail to teach or fairly suggest detecting a distance between said ejecting portion and surface to be coated".

The Examiner disagrees. The secondary references clearly teach the claimed subject matter (see rejection above).

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian K Talbot whose telephone number is (703) 305-3775. The examiner can normally be reached on Monday-Friday 6AM-3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive P Beck can be reached on (703) 308-2333. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3775.

Brian K Talbot Primary Examiner Art Unit 1762

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BKT August 28, 2003